

IN THE CLAIMS:

Please amend Claims 1-3 and 5-8 and add new Claims 9-11 as follows.

1. (Currently Amended) A stereoscopic photographing lens unit that is attached to a camera main unit having a recording medium on which picture signals representing an image formed by the stereoscopic photographing lens unit are recorded, the stereoscopic photographing lens unit having and has a first photographing optical axis and a second photographing optical axis and axis, comprising:

control means for controlling a photographing optical system including said stereoscopic photographing lens unit; and

transmitting means for transmitting predetermined information of the photographing optical system, including control information provided by the control means, to the recording medium in the camera main unit for recordation on the same recording medium together with the picture signals in such a manner so as to permit reading out of the transmitted predetermined information with the picture signals from the recording medium during reproduction of the picture signals.

2. (Currently Amended) A stereoscopic photographing lens unit according to Claim 1, wherein

said transmitting means transmits first information regarding a focal length of the photographing optical system, second information regarding the interval between the incident optical axes of a the first photographing optical axis and a the second photographing optical axis,

and third information regarding the angle formed by the incident optical axes of the first photographing optical axis and the second photographing optical axis to the camera main unit in the form of digital values.

3. (Currently Amended) A stereoscopic photographing lens unit according to Claim 1, further comprising:

a the recording medium for storing the predetermined information of the photographing optical system.

4. (Original) A stereoscopic photographing lens unit according to Claim 1, wherein the stereoscopic photographing lens unit is interchangeable with respect to the camera main unit, and transmits the predetermined information of the photographing optical system through a mounting contact to the camera main unit.

5. (Currently Amended) A stereoscopic photographing apparatus that has a first photographing optical axis and a second photographing optical axis, and switches picture signals for a left eye and a right eye, respectively, for each field through the intermediary of the respective photographic optical axes before inputting an image formed by said stereoscopic photographic apparatus in the form of the pictures signals for the left eye and the right eye to recording means for recordation, comprising:

a photographing optical system including the first and second photographic optical axes;
control means for controlling a said photographing optical system; and

said recording means for recording predetermined information of ~~the~~ said photographing optical system, including control information provided by ~~the~~ said control means, and information regarding whether the odd/even field of an input picture signal corresponds to a the picture signal for left eye or right eye to a the recording medium in the form of digital values, together with picture signals representing an image formed by said stereoscopic photographic apparatus or picture signals representing an image formed by said stereoscopic photographic apparatus and speech signals in such a manner to permit reading out of the predetermined information with the picture signals or the picture signals and the speech signals from the recording medium during reproduction of the picture signals.

6. (Currently Amended) A stereoscopic photographing apparatus according to Claim 5, wherein

said recording means records together with the picture signals or the picture signals and speech signals first information regarding the focal length of the photographing optical system, second information regarding an interval between the incident optical axes of a the first photographing optical axis and a the second photographing optical axis, and third information regarding the angle formed by the incident optical axes of the first photographing optical axis and the second photographing optical axis to a the recording medium, and also records fourth information, which is the information regarding the angle of view calculated from the screen size of an image pick-up device and the first information.

7. (Currently Amended) A photographing system for recording picture signals simultaneously input by a right-eye photographing apparatus and a left-eye photographing apparatus to a recording medium by switching the picture signals for each field, the picture signals respectively representing images produced by an optical system of the right-eye and left-eye photographing apparatuses, said photographing system comprising:

control means for controlling the right-eye and left-eye each photographing apparatuses optical system; and

recording means for recording predetermined information of the right-eye and left-eye photographing apparatuses optical systems, including control information provided by the control means, and information regarding whether the odd/even field of an input picture signal corresponds to a picture signal for a left eye or a right eye representing an image produced by an optical system of the right-eye or the left-eye photographing apparatuses to a recording medium in the form of digital values, together with picture signals representing images produced by an optical system of the right-eye or the left-eye photographing apparatuses or picture signals representing an image produced by an optical system of the right-eye or the left-eye photographing apparatuses and speech signals in such a manner as to permit reading out of the predetermined information with the picture signals or the picture signals and the speech signals from the recording medium during reproduction of the picture signals.

8. (Currently Amended) A photographing system according to Claim 7, wherein said recording means records together with the input picture signal first information regarding the focal length of the photographing optical system, second information regarding an

interval between the incident optical axes of a first photographing optical axis and a second photographing optical axis, and third information regarding the angle formed by the incident optical axes of the first photographing optical axis and the second photographing optical axis to a the recording medium, and also records fourth information, which is the information regarding the angle of view calculated from the screen size of an image pick-up device and the first information.

9. (New) A unit according to Claim 1, wherein said transmitting means transmits the predetermined information of the photographing optical system, to the recording medium in the camera main unit for recordation on the recording medium side by side with the picture signals.

10. (New) The stereoscopic photographing apparatus according to Claim 5, wherein said recording means records the predetermined information side by side with the picture signals or the speech signals.

11. (New) The photographing system according to Claim 7, wherein said recording means records the predetermined information side by side with the picture signals or the speech signals.